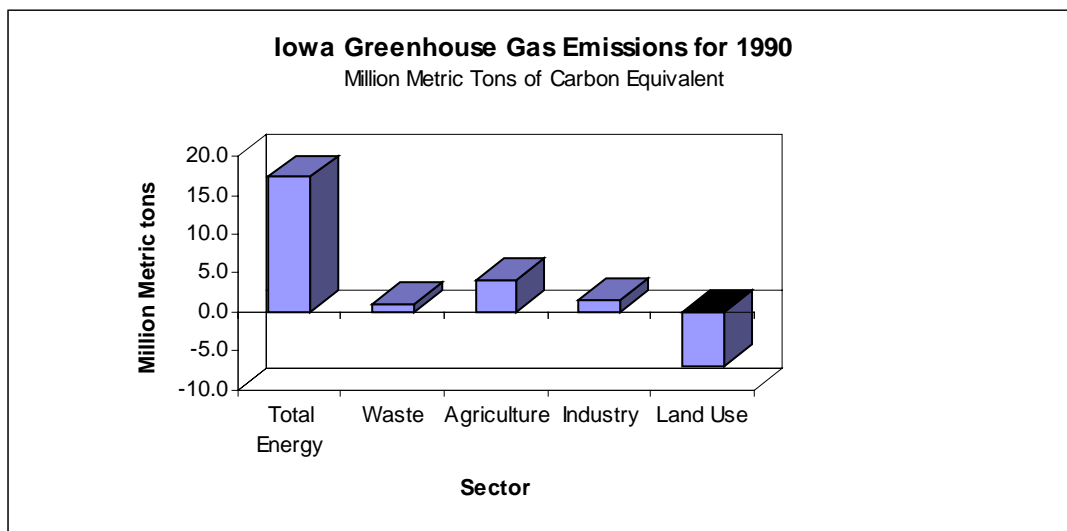


## IOWA GREENHOUSE GAS EMISSIONS AND SINKS INVENTORY: SUMMARY



This report provides a detailed inventory of greenhouse gas emissions and sinks for Iowa in 1990. Emissions were estimated using methods from EPA's 1995 guidance document ***State Workbook: Methodologies for Estimating Greenhouse Gas Emissions***. In 1990, Iowa emitted 17.0 million metric tons of carbon equivalent (MMTCE). In addition, Iowa estimated emissions of 9.2 MMTCE from biomass fuels and from sources not covered in the workbook methodology.<sup>1</sup> Emissions from these sources are not included in the reported total or the table below.

The principal greenhouse gases were carbon dioxide, comprising 43.6 million metric tons, and methane, with 0.7 million metric tons (3.7 MMTCE). Other emissions included 0.02 million metric tons of nitrous oxide (1.7 MMTCE).

The major source of carbon dioxide emissions was fossil fuel combustion (92%), the majority of which is due to utility coal. Minor emissions came from cement production, lime manufacture, and limestone use. Carbon dioxide sinks (timber stock and other forest resources) offset about 37% of the total carbon dioxide emissions. Contributors to methane emissions were domesticated animals (52%), landfills (26%), manure management (17%), coal mining and natural gas production (3%), and burning of agricultural wastes (1.5%). Nitrous oxide emissions were accounted for by fertilizer use and the burning of agricultural wastes.

Iowa emissions in 1990 were 6.1 MTCE per capita, compared to 1990 U.S. emissions of 6.4 MTCE per capita.

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<sup>1</sup> These emissions include carbon dioxide from imported electricity, combustion of other fossil fuels, and the burning of crop residues.

### Iowa Greenhouse Gas Emissions for 1990

SECTOR	CO <sub>2</sub> (MMTCE)	Methane (MMTCE)	Nitrous Oxide (MMTCE)	PFCs (MMTCE)	Total GHG Emissions (MMTCE)
Energy - Residential	1.3	*	*	*	1.3
Energy - Commercial	0.8	*	*	*	0.8
Energy - Industrial	3.7	*	*	*	3.7
Energy - Transport	4.5	*	*	*	4.5
Energy - Utility	6.9	*	*	*	6.9
<b>Total Energy</b>	<b>17.3</b>	<b>0.1</b>	*	*	<b>17.4</b>
<b>Waste</b>	*	<b>1.0</b>	*	*	<b>1.0</b>
<b>Agriculture</b>	*	<b>2.6</b>	<b>1.5</b>	*	<b>4.1</b>
<b>Industry</b>	<b>1.6</b>	*	*	*	<b>1.6</b>
<b>Land Use</b>	<b>-6.9</b>	*	*	*	<b>-6.9</b>
<b>TOTAL</b>	<b>11.9</b>	<b>3.7</b>	<b>1.5</b>	*	<b>17.0</b>

All emissions are reported in million metric tons of carbon equivalent (MMTCE).

An asterisk ( \* ) indicates that emissions of the gas from this sector were zero, insignificant, or not reported.

Emissions due to coal mining and extraction of natural gas and oil are included in the total energy figures, and emissions from biofuel combustion are excluded.